

John Steele

Summary of Qualifications

John Steele is an Information Specialist who has in-depth skills across the IT industry. This has been acquired during over 50 years in the industry.

Recent work has been mainly in the defence sector where his broad knowledge base enables a unique insight into security issues, especially at the network layer. He has experience in both hardware and software design and implementation as well as working with security accreditors to achieve an accreditable design in systems that carry a high protective marking.

The level of detail about projects and clients below is constrained by confidentiality considerations due to the nature of the work undertaken.

Certifications

Current Certifications	Year Attained
BSc Hons Electrical Engineering	1963
Member of British Computer Society (MBCS)	1991
Chartered Engineer (CEng)	1998
Chartered IT Professional (CITP)	2003

Technical Expertise

Area	Years of Expertise
Hardware design	25
Operating system kernel design/implementation	5
Network Architecture/implementation	40+
Software design and implementation	40+
System Architectures	20+
Computer manufacturer	14
Financial market (Trading room) system architecture	7
Defence Sector systems design	20
Software/systems/security consultancy	20+

Specific Technical Skills	Years of Expertise
Familiar with the Cabinet office Security Policy Framework and particularly with the related topic of Auditing and Protective Monitoring	10
Expertise with TEMPEST threats and related protective measures	20
Networking, including secure design for LAN, WAN, and satellite communications for commercial and military applications, and problem investigation	40+
Visualisation of both Server and Desktop using mainly VMWare	8

Automation of VMWare environment deployment using PoweShell	3
Windows Operating Systems from Windows 1 onwards	30
Software development tools e.g. Visual Studio	20
Familiarity with most of the current programming languages including C, C++, C#, Python, Java etc.	25
Knowledge of XML/XLST technology	10

Relevant Project Expertise	Years of Expertise
Large Defence system project delivery	20
Finance sector project delivery	10

Relevant Industry Expertise	Years of Expertise
Computer manufacturer	15
Special hardware and software design	10
Defence contracts	20
Finance sector	7

Relevant Project Experience

Contract via TEKSystems	Hampshire	01/6/14 to date
Project Type	Network Design and Implementation	
Role	Network/Security Architect	
Responsibilities	<p>The system is operated as a managed service to the government department. The design contract was via the managed service provider.</p> <ul style="list-style-type: none"> ➤ The role is to work with the existing system operation team to design and manage the implementation of the network enhancements for an existing IL4 system which is being expanded to a further 30 sites and extended to access additional external services over the xGSi. This a follow on to the previous contract. ➤ The objective is to facilitate migration to a Tier 2 system under the new protective marking scheme at some time in the future. ➤ The WAN bearer will be capable of using ADSL as a low cost solution where this level of availability can be accepted by the local business community. Some sites will use conventional leased circuits where the business needs the higher level of assured availability. ➤ The documentation set will be updated to incorporate this and some earlier changes in preparation for accreditation and testing prior to acceptance. ➤ The role will include working with the CLAS consultant to update the RMADS ➤ The design will be presented to the end customer and to their accreditor for their approval prior to entering live service 	

Contract via OCSL	Hampshire	01/2014 to 02/2014
Project Type	Network design enhancement for a proposed major expansion to a current IL4 Government system	
Role	Network/Security Architect	
Responsibilities	<p>The system is provided as a managed service to the government department. The design contract was with the managed service provider.</p> <ul style="list-style-type: none"> ➤ The task was to consider and compare system and network options for adding a new group of users to an existing important IL4 system and to address the conflicting needs for minimal cost, fast deployment, and system availability while maintaining appropriate levels of confidentiality within the existing system. ➤ The options will be presented as a change proposal to the existing and new stakeholders by the managed service provider ➤ The design concept was developed and then discussed with the end user stakeholders and agreement with the approach obtained in principle before the options were finalised ➤ The system high level designs were updated to be ready for deployment once approval has been given ➤ The system design was prepared in conjunction with and accepted by the project's CLAS consultant 	

HP Internal Project	Hook	09/2012 to 10/2013
Project Type	Technical consultancy on Security for an internal IT IL3 system accredited for connection to government networks	
Role	Technical/Security Architect	
Responsibilities	<ul style="list-style-type: none"> ➤ Provide advice on system design to meet project security objectives to the design team as required ➤ Provide detailed technical review of design documents as part of the Security Approval process ➤ Contribute to the security documentation prepared for accreditation ➤ Design of Protective monitoring solution (ArcSight) together with HP SME ➤ Documentation of existing Lenel building access system design and to design remedial action to mitigate certain security risks with current installation identified during this process ➤ 	

HP (government)	Hook	10/2011 to 08/2012
Project Type	Thin client/VDI Desktop system (George)	
Role	Technical Architect	
Responsibilities	<ul style="list-style-type: none"> ➤ Network design and consultancy including major review and update of the network design documentation identifying a number of security issues that need to be addressed especially in the network management area ➤ General security consultancy to project on VDI, Windows and general architecture issues 	

HP (Government)	Client Site	02/2011 to 10/2011
Project Type	Desktop services	
Role	Technical Architect	
Responsibilities	<ul style="list-style-type: none"> ➤ Automation of AppV sequencing for applications that support “silent install” using a standard installer. This process also requires programmatic interaction with ESX to control virtual machines. It has been implemented using PowerShell. 	

HP (Government)	Client Site	12/2009 to 02/2011
Project Type	Consultancy to Client	
Role	Technical Architect	
Responsibilities	<ul style="list-style-type: none"> ➤ Prototype/proof of concept of a design using thin client solution to deliver streaming video/web access from remote resources with varying security/reputation challenges across a common network 	

ATLAS (MoD)	Reading and Hook	11/2008 to 12/2009
Project Type	Delivery of TS System to MoD	
Role	Technical Architect	
Responsibilities	<ul style="list-style-type: none"> ➤ Delivery of System Design overview document ➤ Design/delivery of in-house system to support OA plus Development and Integration support. ➤ Member of Central Engineering team support to delivery teams 	

EDS	Hook	11/2007 to 05/2008
Project Type	Bid to Government Department	
Role	Technical Architect	
Responsibilities	<ul style="list-style-type: none"> ➤ Design of visualization solution, infrastructure, implementation of demonstrations ➤ Proposal material for above 	

EDS (MoD)	Hook	11/2006 to 05/2008
Project Type	Delivery of Urgent Operational Requirement to Operations in Theatre – Project OVERTASK	
Role	Technical Architect	
Responsibilities	<ul style="list-style-type: none"> ➤ Liaise with NATO on technical solution to ensure accreditation including documentation of solution ➤ Technical direction of implementation team to deliver working solution in short time ➤ Implementation of virtual network for reference system ➤ Design of visualised reference rig used for development 	

EDS (MoD)	Hook	05/2006 to 11/2006
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Project Type	Delivery of IT System to Theatre – J1J4
Role	Technical Architect
Responsibilities	<ul style="list-style-type: none"> ➤ Resolve technical issues in a project which included Text ➤ Network design ➤ Service management design ➤ WAN and security issues Text

EDS	Hook	05/2005 to 05/2006
Project Type	Technical Director – Communications and Messaging Group (CMG)	
Role	Technical Leadership	
Responsibilities	Technical Governance within CMG	

Highlights Prior to EDS/HP		06/1963 to 05/2005
BT Syntegra From 1992 to 2005 (2003-2005 as contractor)		
Project type	Bid for SCOPE project	
Role	Technical Leadership	
Responsibilities	Audit and accounting, Network Architecture, Windows Security (working with other consortia members)	
Project type	Bid and Implementation for Land Systems Reference Centre at Blandford	
Role	Technical Leadership	
Responsibilities	Design of TEMPEST infrastructure, design of specialized monitoring tools and worked with subcontractors assisting with their implementation. Required detailed knowledge of military versions of protocols	
Soroban Systems Ltd From 1990 to 1992 and 2003 to 2005		
Project type	Consultancy services to a number of clients including BT, DrumGrange, Berkshire County Council	
Role	Principal Consultant	
Responsibilities	Consultancy delivering advice to local authority, security documentation, implementation of software for a prototype for a bid etc.	
Data Logic From 1976 to 1990		
Project then product design and support	Design of Dealing room system and then technical consultancy to Banks and to Data Logic marketing.	
Role	Chief Engineer of Engineering division and then Resident technical support manager based in Tokyo	
Responsibilities	Initially detailed hardware and software design of dealing room system and then for the continued development to a networked solution delivering data to dealers in real time. This went from an initial project delivering 70 dealing positions as a special PROJECT TO A £40m Per Annum Business. Finally providing the Technical interface to Japanese business partner in Tokyo	
Computer Technology from 1970 to 1976		
Project type	Hardware design and the n software	

Role	Team lead/design authority for a UNIX like Multi-user Operating system. Before that as a hardware designer and team leader for a Magnetic Tape product
Responsibilities	Technical leadership for team supporting the OS. Personally responsible for implementation of around 25% of the code for the kernel of the OS (all assembler), and with the small team, responsible for all support to the user community (diagnosis and bug fixes). Prior to that had implemented a Magnetic Tape controller including the OS drivers
Ferranti from 1963 to 1970	
Project type	Hardware product design
Role	Became a team leader
Responsibilities	Design of an early Integrated Circuit based compute (Argus 400), then directly responsible for the I/O interfacing for most of the peripheral devices and specialised instrument interfaces forming the o Process Control systems supplied by Ferranti

Education

- Manchester University (1960 to 1963)
- Manchester Grammar School (1954 to 1963)